

## BIOLOGICAL SAMPLE COMPONENT PURIFICATION AND DIFFERENTIAL DISPLAY

### ABSTRACT OF THE DISCLOSURE

5        Provided are affinity support materials having intermediate binding affinity for biological samples. Among the materials provided by the present invention are hydrophilic solid supports composed of hydrophilic ligands coupled to hydrophilic matrixes which are compatible with biological samples, for example, a cell line, a biological fluid such as blood, or a tissue cell lysate. The ligands may include affinity 10      property groups and hydrophilic groups pendent from a backbone, and be configured to at least partially resolve components of a biological sample. Affinity supports in accordance with the present invention may be used in a variety of techniques and apparatuses to achieve improved separations of complex biological samples and thereby enhance the results of biological sample component fractionations, 15      enrichments, purifications, expression product determinations and comparisons, and other biological sample processing techniques. In addition, the affinity supports may be included in kits useful in processing biological samples.